

Table 1

Strain No.	Genus	Strains		Supernatant fraction		Cell fraction	
		FOH	GGOH	FOH	GGOH	FOH	GGOH
ATCC 12341	<i>Saccharomyces cerevisiae</i>	0.0	0.0	0.0	14.4		
K 4010	<i>Saccharomyces</i> sp.	0.0	0.0	0.0	9.1		
K 4031	<i>Saccharomyces</i> sp.	0.0	0.0	0.0	7.0		
K 4037	<i>Saccharomyces</i> sp.	0.0	0.0	0.0	5.8		
K 4039	<i>Saccharomyces</i> sp.	0.0	0.0	0.0	5.5		
K 4041	<i>Saccharomyces</i> sp.	0.0	0.0	0.0	8.4		
IFO 0565	<i>Saccharomyces cerevisiae</i>	0.0	0.0	0.0	54.7		
IFO 0222	<i>Saccharomyces cerevisiae</i>	0.0	0.0	0.0	3.3		
IFO 0216	<i>Saccharomyces cerevisiae</i>	0.0	0.0	0.0	5.8		
ATCC 9080	<i>Saccharomyces cerevisiae</i>	0.0	0.0	0.0	5.7		
IFO 0106	<i>Saccharomyces fibuligera</i>	0.0	0.0	0.0	3.4		
IFO 0125	<i>Williopsis saturnus</i> var. saturuns	0.0	0.0	0.0	5.4		
IFO 0807	<i>Pichia silvicola</i>	0.0	0.0	0.0	1.2		
IFO 0980	<i>Nakazawaea holstii</i>	0.0	0.0	0.0	5.2		
K 4327	<i>Hansenula polymorpha</i>	0.0	0.0	0.0	4.7		
IFO 0151	<i>Kloeckera japonica</i>	0.0	0.0	0.0	10.2		
IFO 0128	<i>Pichia membranaefaciens</i>	0.0	0.0	0.0	11.0		
K 4261	<i>Pichia aganobii</i>	0.0	4.0	0.0	0.0		
IFO 0941	<i>Williopsis saturnus</i> var. saturuns	0.0	0.0	0.0	6.7		
IFO 0013	<i>Candida krusei</i>	0.0	0.0	0.0	16.5		
IFO 0706	<i>Candida kefyr</i>	0.0	0.0	0.0	4.9		
IFO 0716	<i>Candida tenuis</i>	0.0	0.0	0.0	8.7		
IFO 0617	<i>Kluyveromyces marxianus</i>	0.0	0.0	0.0	25.2		
IFO 0762	<i>Candida solani</i>	0.0	0.0	0.0	29.0		
IFO 1060	<i>Candida albicans</i>	0.0	2.4	0.0	0.0		
IFO 0720	<i>Candida catenulata</i>	0.0	0.0	0.0	25.9		

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 2

Strain No.	Genus	Strains		Supernatant fraction		Cell fraction	
		FOH	GGOH	FOH	GGOH	FOH	GGOH
K 4002	<i>Saccharomyces</i> sp.	4.4	0.0	0.0	10.9		
K 4006	<i>Saccharomyces</i> sp.	4.2	0.0	4.3	6.7		
K 4013	<i>Saccharomyces</i> sake	0.0	0.0	7.3	5.0		
K 4015	<i>Saccharomyces</i> sake	7.9	0.0	6.6	7.9		
K 4016	<i>Saccharomyces</i> sake	4.5	0.0	2.2	6.5		
K 4017	<i>Saccharomyces</i> sake	4.3	0.0	7.9	7.9		
K 4018	<i>Saccharomyces</i> sake	4.4	0.0	5.0	9.9		
K 4020	<i>Saccharomyces</i> sake	0.0	0.0	2.8	5.4		
K 4022	<i>Saccharomyces</i> sake	0.0	0.0	2.1	4.7		
K 4023	<i>Saccharomyces</i> sake	0.0	0.0	5.2	11.5		
K 4025	<i>Saccharomyces</i> sake	5.0	0.0	5.5	2.0		
K 4026	<i>Saccharomyces</i> sake	0.0	0.0	2.6	7.6		
K 4029	<i>Saccharomyces</i> sake	0.0	0.0	2.2	2.3		
K 4030	<i>Saccharomyces</i> sp.	5.1	0.0	4.6	3.7		
K 4036	<i>Saccharomyces</i> sp.	0.0	0.0	4.1	15.2		
K 4045	<i>Saccharomyces cerevisiae</i>	0.0	0.0	44.9	18.6		
K 4102	<i>Saccharomyces ellipsoideus</i>	0.0	0.0	22.9	7.2		
K 4103	<i>Saccharomyces cerevisiae</i>	0.0	0.0	22.6	8.6		
K 4104	<i>Saccharomyces cerevisiae</i>	0.0	0.0	15.8	31.7		
IFO 0252	<i>Saccharomyces rosei</i>	0.0	0.0	28.5	39.0		
IFO 0288	<i>Kluyveromyces marxianus</i>	0.0	0.0	11.3	22.6		
Kyokai No. 2	<i>Saccharomyces</i> sake	0.0	0.0	9.7	26.1		
IFO 0422	<i>Torulaspora delbrueckii</i>	0.0	0.0	8.2	11.9		
IFO 0487	<i>Zygosaccharomyces rouxii</i>	0.0	0.0	4.9	14.3		
IFO 1346	<i>Saccharomyces cerevisiae</i>	0.0	0.0	4.3	13.1		
ATCC 204660	<i>Saccharomyces cerevisiae</i>	8.7	0.0	9.3	26.8		
IFO 0339	<i>Saccharomyces ludwigii</i>	15.3	0.0	6.0	80.9		
IAM 4842	<i>Schizosaccharomyces octosporus</i>	2.7	0.0	2.2	12.1		
IFO 1116	<i>Wickerhamia fluorescens</i>	18.7	0.0	4.2	23.0		
IFO 0794	<i>Debaryomyces hansenii</i> var. <i>fabryi</i>	4.8	2.7	7.7	11.5		
IFO 1359	<i>Debaryomyces castellii</i>	18.5	0.0	6.3	21.1		

(Continuation of Table 2)

ICM 2169	<i>Debaryomyces vanrijiae</i>	73.7	0.0	14.3	6.2
	var. <i>vanrijiae</i>				
IFO 0115	<i>Hanseniaspora valbyensis</i>	13.6	0.0	7.4	103.5
IFO 0118	<i>Pichia anomala</i>	0.0	0.0	2.2	15.3
IFO 0569	<i>Pichia anomala</i>	0.0	0.0	7.3	28.2
IFO 0941	<i>Williopsis saturnus</i>	4.7	0.0	69.8	78.7
	var. <i>saturnus</i>				
IFO 1475	<i>Ogataea polymorpha</i>	0.0	0.0	13.5	36.1
IFO 1670	<i>Pichia naganishii</i>	1.2	2.1	0.0	0.0
IFO 0707	<i>Pichia anomala</i>	8.6	0.6	0.0	12.3
IFO 0719	<i>Candida zeylanoides</i>	10.2	0.0	4.4	20.3
IFO 0701	<i>Candida stellata</i>	10.3	0.0	0.0	4.9
IFO 0662	<i>Kluyveromyces thermotolerans</i>	13.7	0.0	10.4	9.2
IFO 0648	<i>Kluyveromyces lactis</i>	16.0	0.0	6.3	72.9
IFO 0005	<i>Candida glabrata</i>	35.7	5.4	4.5	28.3
IFO 0595	<i>Zygosaccharomyces japonicus</i>	9.3	3.6	0.0	0.0

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 3

Strain No.	Genus	Strains		Supernatant fraction		Cell fraction	
		FOH	GGOH	FOH	GGOH	FOH	GGOH
K 4003	<i>Saccharomyces</i> sp.	5.0	0.0	19.3	0.0		
K 4004	<i>Saccharomyces</i> sp.	10.6	0.0	15.2	0.0		
K 4011	<i>Saccharomyces sake</i>	0.0	0.0	9.0	0.0		
K 4021	<i>Saccharomyces sake</i>	0.0	0.0	2.2	0.0		
K 4101	<i>Saccharomyces logos</i>	0.0	0.0	18.4	0.0		
IFO 0686	<i>Zygosaccharomyces rouxii</i>	0.0	0.0	10.1	0.0		
IFO 0285	<i>Saccharomyces dairensis</i>	4.4	0.0	0.0	0.0		
IFO 0262	<i>Saccharomyces cerevisiae</i>	7.1	0.0	0.0	0.0		
IFO 0021	<i>Zygosaccharomyces fermentati</i>	5.4	0.0	0.0	0.0		
IFO 0259	<i>Saccharomyces paradoxus</i>	3.2	0.0	0.0	0.0		
IFO 0539	<i>Saccharomyces bayanus</i>	1.4	0.0	0.0	0.0		
IFO 0613	<i>Saccharomyces bayanus</i>	2.3	0.0	0.0	0.0		
IFO 0346	<i>Schizosaccharomyces pombe</i>	4.4	0.0	16.8	0.0		
IFO 0358	<i>Schizosaccharomyces pombe</i>	2.3	0.0	4.7	0.0		
IFO 0023	<i>Debaryomyces hansenii</i>	12.2	0.0	0.0	0.0		
IFO 0954	<i>Citeromyces matritensis</i>	8.5	0.0	0.0	0.0		
IFO 0974	<i>Kuraishia capsulata</i>	0.0	0.0	8.2	0.0		
IFO 0963	<i>Pichia anomala</i>	0.0	0.0	9.6	0.0		
IFO 0673	<i>Waltonomyces lipofer</i>	10.1	0.0	0.0	0.0		
IFO 0678	<i>Lypomyces starkeyi</i>	4.8	0.0	0.0	0.0		
IFO 0579	<i>Candida albicans</i>	12.8	0.0	0.0	0.0		
IFO 0626	<i>Candida utilis</i>	3.0	0.0	0.0	0.0		
IFO 3022	<i>Bacillus amyloliquefaciens</i>	4.1	0.0	0.0	0.0		
IFO 3030	<i>Bacillus pumilus</i>	6.0	0.0	0.0	0.0		
IFO 3762	<i>Staphylococcus epidermidis</i>	6.1	0.0	0.0	0.0		
K 876	<i>Pseudomonas</i> sp.	18.6	0.0	0.0	0.0		

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 4

Strain No.	Genus	Supernatant fraction ($\mu\text{g/L}$ of culture solution)			Cell fraction		
		NE	FOH	GGOH	NE	FOH	GGOH
IF0 12865	<i>Streptomyces</i> gardneri	0.0	0.0	0.0	11.5	0.0	0.0
IF0 3384	<i>Nocardia</i> asteroides	0.0	0.0	0.0	14.2	0.0	0.0
IF0 14340	<i>Nocardia</i> fusca	0.0	0.0	0.0	6.4	0.0	0.0

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

Table 5

Strain No.	Medium composition	Cultivation period (days)	Supernatant fraction ($\mu\text{g/L}$ of culture solution)			
			Phosphatase-untreated		Phosphatase-treated	
			FOH	GGOH	FOH	GGOH
IFO 0005	YM	1	0.0	0.0	1.5	0.0
		2	0.0	0.0	0.0	0.0
		3	0.0	0.0	0.0	0.0
	YM+Glc	1	0.0	0.0	6.1	0.0
		2	0.0	0.0	9.5	0.0
		3	29.4	2.3	13.9	0.0
	YM+Glc+SBO	1	0.0	0.0	0.0	0.0
		2	135.6	92.0	69.9	31.5
		3	850.7	416.5	116.6	40.0
IFO 0115	YM	1	0.0	0.0	0.0	0.0
		2	0.0	0.0	0.0	0.0
		3	34.0	0.0	0.0	0.0
	YM+Glc	1	0.0	0.0	0.0	0.0
		2	11.3	0.0	0.0	0.0
		3	36.4	0.0	18.0	0.0
	YM+Glc+SBO	1	0.0	0.0	0.0	0.0
		2	24.0	0.0	5.1	0.0
		3	30.3	26.5	7.9	0.0
IFO 0339	YM	1	0.0	0.0	0.0	0.0
		2	8.7	0.0	0.0	0.0
		3	0.0	0.0	0.0	0.0
	YM+Glc	1	0.0	0.0	0.0	0.0
		2	16.8	0.0	17.7	0.0
		3	67.1	0.0	20.8	0.0
	YM+Glc+SBO	1	0.0	0.0	0.0	0.0
		2	11.7	5.3	0.0	0.0
		3	85.6	7.3	6.5	0.0

FOH: farnesol

GGOH: geranylgeraniol

YM: YM medium (Difco)

YM+Glc: YM medium (Difco) + 5% glucose

YM+Glc+SBO: YM medium (Difco) + 5% glucose + 1% soybean oil

Table 6

Strain No.	Medium composition	Cultivation period (days)	Cell fraction ($\mu\text{g/L}$ of culture solution)			
			Phosphatase-untreated		Phosphatase-treated	
			FOH	GGOH	FOH	GGOH
IFO 0005	YM	1	39.4	0.0	0.0	0.0
		2	14.8	37.3	0.0	0.0
		3	11.4	41.7	51.2	0.0
	YM+Glc	1	8.4	0.0	0.0	0.0
		2	44.1	134.4	86.8	304.8
		3	104.4	323.9	202.4	772.6
	YM+Glc+SBO	1	5.8	0.0	0.0	0.0
		2	427.4	178.9	248.0	239.6
		3	835.3	363.7	1321.6	1176.2
IFO 0115	YM	1	0.0	0.0	0.0	0.0
		2	34.0	5.1	0.0	0.0
		3	21.1	45.6	0.0	63.7
	YM+Glc	1	0.0	0.0	0.0	0.0
		2	46.6	26.1	23.9	0.0
		3	54.2	108.5	78.0	491.8
	YM+Glc+SBO	1	0.0	0.0	0.0	0.0
		2	0.0	0.0	9.7	0.0
		3	61.3	122.0	69.2	286.1
IFO 0339	YM	1	18.0	0.0	0.0	0.0
		2	16.6	0.0	0.0	0.0
		3	19.5	48.3	0.0	71.0
	YM+Glc	1	0.0	0.0	0.0	0.0
		2	58.6	34.1	12.0	0.0
		3	62.3	173.8	67.8	464.8
	YM+Glc+SBO	1	0.0	0.0	0.0	0.0
		2	96.4	10.3	9.3	0.0
		3	61.6	103.7	27.9	135.6

FOH: farnesol

GGOH: geranylgeraniol

YM: YM medium (Difco)

YM+Glc: YM medium (Difco) + 5% glucose

YM+Glc+SBO: YM medium (Difco) + 5% glucose + 1% soybean oil

Table 7

Medium composition: YM medium (Difco)

Strain No.	Genus	Strains		Supernatant fraction ($\mu\text{g/L}$ of culture solution)		Cell fraction	
		FOH	GGOH	FOH	GGOH	FOH	GGOH
K 4104	<i>Saccharomyces cerevisiae</i>	0.0	0.0	15.8	31.7		
IFO 0252	<i>Saccharomyces rosei</i>	0.0	0.0	28.5	39.0		
IFO 0565	<i>Saccharomyces cerevisiae</i>	0.0	0.0	0.0	54.7		
IFO 0941	<i>Williopsis saturnus</i> var. <i>saturnus</i>	4.7	0.0	69.8	78.7		
IFO 1475	<i>Ogataea polymorpha</i>	0.0	0.0	13.5	36.1		
IFO 0648	<i>Kluyveromyces lacis</i>	6.0	0.0	6.3	72.9		

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 8

Medium composition: YM medium (Difco) + 5% glucose + 1% soybean oil

Strain No.	Genus	Cultivation days	Supernatant fraction (μg/L of culture solution)			Cell fraction
			FOH	GGOH	FOH	
K 4104	<i>Saccharomyces cerevisiae</i>	3	281.0	127.7	241.1	161.6
		6	338.2	186.9	155.3	132.2
IFO 2052	<i>Saccharomyces rosei</i>	3	220.0	98.0	305.9	140.2
		6	381.2	176.6	193.1	122.5
IFO 0565	<i>Saccharomyces cerevisiae</i>	3	49.3	16.0	88.0	78.2
		6	51.9	34.1	248.5	214.2
IFO 0941	<i>Williopsis saturnus</i>	3	54.8	22.6	255.3	169.3
	var. <i>saturnus</i>	6	88.3	33.1	363.2	220.9
IFO 1475	<i>Ogataea polymorpha</i>	3	60.9	69.1	113.5	127.2
IFO 0648	<i>Kluyveromyces lactis</i>	6	19.8	14.4	60.8	95.9
		3	28.5	37.8	61.8	91.1
		6	120.3	124.5	159.8	211.5

K: strain maintained by Kyoto University

FOH: farnesol

GGOH: geranylgeraniol

Table 9

Medium composition: YM medium (Difco) + 4 mg/L ergosterol + 0-20 mg/L SQAD

Strain No.	SQAD	Days	Supernatant fraction			Cell fraction		
			NE	FOH	GGOH	NE	FOH	GGOH
IFO 0215	0	3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Saccharomyces</i>	1		0.0	0.0	0.0	0.0	0.0	0.0
<i>unisporus</i>	20		0.0	3.2	0.0	0.0	0.0	0.0
	0	7	0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	0.0	0.0	0.0	0.0	0.0
IFO 0538	0	3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Saccharomyces</i>	1		0.0	0.0	0.0	0.0	0.0	0.0
<i>cerevisiae</i>	20		0.0	0.0	0.0	0.0	8.1	0.0
	0	7	0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	0.0	0.0	0.0	0.0	0.0
IFO 0622	0	3	0.0	3.1	0.0	0.0	1.9	30.4
<i>Candida</i>	1		0.0	3.5	0.0	0.0	1.4	24.3
<i>glabrata</i>	20		0.0	243.5	0.0	0.0	212.0	57.0
	0	7	0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	0.0	0.0	0.0	5.5	40.5
IFO 0717	0	3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Yarrowia</i>	1		0.0	1.3	0.0	0.0	0.0	0.0
<i>lopolytica</i>	20		0.0	39.7	66.5	0.0	39.7	63.5
	0	7	0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	2.1	0.0	0.0	1.5	0.0
	20		0.0	10.6	0.0	0.0	10.6	0.0
IFO 0948	0	3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Komagataella</i>	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	3.4	2.3	0.0	3.4	1.8
	0	7	0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	0.0	0.0	0.0	0.0	0.0

Table 9 (continued)

(Continuation of Table 9)

IFO 0974	0	3	0.0	0.0	0.0	0.0	0.0	0.0
Kuraishia	1		0.0	0.0	0.0	0.0	0.0	0.0
<i>capsulata</i>	20		0.0	0.0	0.0	0.0	0.0	0.0
	0	7	0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	0.0	0.0	0.0	0.0	0.0
IFO 1472	0	3	0.0	0.0	0.0	0.0	0.0	0.0
Ogataea	1		0.0	0.0	0.0	0.0	0.0	0.0
<i>glucozyma</i>	20		0.0	0.0	18.3	0.0	0.0	17.5
	0	7	0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	0.0	0.0	0.0	0.0	6.8
IFO 1892	0	3	0.0	0.0	0.0	0.0	0.0	8.9
Saccharomyces	1		0.0	0.0	0.0	0.0	0.0	16.7
<i>kluyeri</i>	20		0.0	0.0	0.0	0.0	0.0	38.5
	0	7	0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	0.0	0.0	0.0	0.0	0.0
IFO 1910	0	3	0.0	0.0	0.0	0.0	0.0	0.0
Candida	1		0.0	0.0	0.0	0.0	0.0	0.0
<i>cariosilignicola</i>	20		0.0	0.0	0.0	0.0	0.0	5.5
	0	7	0.0	0.0	0.0	0.0	0.0	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	0.0	0.0	0.0	0.0	0.0
IFO 0005	0	3	0.0	0.0	0.0	0.0	0.0	12.0
Candida	1		0.0	0.0	0.0	0.0	0.0	4.3
<i>glabrata</i>	20		0.0	33.8	2.7	0.0	0.0	53.7
	0	7	0.0	0.0	0.0	0.0	20.5	0.0
	1		0.0	0.0	0.0	0.0	0.0	0.0
	20		0.0	0.0	0.0	0.0	0.0	0.0

I: strain purchased from IFO

NE: nerolidol FOH: farnesol GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor 0: none 1: 1 mg/L 20: 20 mg/L

Table 10

Medium composition: YM medium (Difco) + 5% glucose + 1% soybean oil
+ 4 mg/L ergosterol + 0-20 mg/L SQAD

Strain No.	SQAD	Days	NE	Supernatant fraction		Cell fraction	
				FOH	GGOH	NE	FOH
IFO 0215	0	3	16.3	8.2	0.0	0.0	0.0
<i>Saccharomyces</i>	1		12.2	5.2	0.0	0.0	0.0
<i>unisporus</i>	20		67.4	68.4	0.0	0.0	16.9
	0	7	19.6	14.8	0.0	0.0	0.0
	1		27.3	17.5	0.0	0.0	0.0
	20		466.6	433.7	21.6	8.6	255.6
IFO 0538	0	3	0.0	139.3	59.8	0.0	0.0
<i>Saccharomyces</i>	1		0.0	102.9	46.2	0.0	15.5
<i>cerevisiae</i>	20		65.9	9087.5	331.6	0.0	1465.9
	0	7	0.0	426.4	246.7	0.0	38.0
	1		0.0	319.5	241.0	0.0	188.8
	20		216.2	34241.4	1568.8	18.4	5812.1
IFO 0622	0	3	0.0	106.1	112.3	0.0	28.8
<i>Candida</i>	1		9.4	149.2	119.7	0.0	9.7
<i>glabrata</i>	20		422.2	12186.9	327.2	0.0	331.6
	0	7	11.6	378.3	408.5	0.0	43.7
	1		17.2	530.0	231.5	0.0	133.3
	20		1256.9	22147.1	862.7	138.0	2750.6
IFO 0717	0	3	0.0	8.7	0.0	0.0	6.7
<i>Yarrowia</i>	1		2.4	100.1	19.1	0.0	165.3
<i>lopolytica</i>	20		19.0	983.3	17.8	0.0	882.1
	0	7	0.0	95.3	608.0	0.0	0.0
	1		19.0	405.4	546.8	0.0	0.0
	20		156.7	6812.9	76.2	0.0	1025.1
IFO 0948	0	3	0.0	73.5	78.9	0.0	13.8
<i>Komagataella</i>	1		0.0	82.2	71.5	0.0	22.9
<i>pastoris</i>	20		17.2	2956.2	132.5	0.0	608.4
	0	7	0.0	101.6	83.5	0.0	4.3
	1		0.0	569.8	235.7	0.0	53.4
	20		34.2	5513.3	360.4	0.0	537.5
							84.5

(Continuation of Table 10)

IFO 0974	0	3	0.0	24.8	11.1	0.0	3.3	0.0
Kuraishia	1		0.0	1061.9	46.1	0.0	16.1	7.5
<i>capsulata</i>	20		0.0	2022.7	262.0	0.0	149.2	34.8
	0	7	0.0	167.5	236.3	0.0	3.2	8.5
	1		0.0	713.7	275.7	0.0	24.8	21.2
	20		35.9	8268.5	680.4	0.0	362.1	59.7
IFO 1472	0	3	0.0	34.8	79.8	0.0	7.4	20.4
Ogataea	1		0.0	40.5	86.0	0.0	3.7	9.5
<i>glucozyma</i>	20		0.0	808.8	278.7	0.0	41.1	37.5
	0	7	0.0	63.2	138.8	0.0	0.0	0.0
	1		0.0	93.8	114.7	0.0	0.0	0.0
	20		0.0	1832.0	513.0	0.0	73.7	52.6
IFO 1892	0	3	0.0	70.4	46.1	0.0	3.7	0.0
Saccharomyces	1		0.0	51.4	23.0	0.0	2.3	0.0
<i>kluyeri</i>	20		0.0	62.9	30.7	0.0	16.5	0.0
	0	7	0.0	158.5	71.4	0.0	0.0	0.0
	1		23.5	188.3	101.7	0.0	5.0	0.0
	20		44.1	935.3	126.4	0.0	227.8	27.8
IFO 1910	0	3	0.0	11.0	44.7	0.0	0.0	0.0
Candida	1		0.0	20.9	69.3	0.0	0.0	0.0
<i>cariosilignicola</i>	20		0.0	124.9	127.1	0.0	8.1	19.6
	0	7	0.0	51.7	152.9	0.0	0.0	0.0
	1		0.0	257.7	367.3	0.0	10.3	37.4
	20		0.0	14378.1	2997.2	0.0	845.5	205.0
IFO 0005	0	3	22.9	552.1	496.1	0.0	50.5	75.2
Candida	1		260.0	6784.9	818.5	8.6	462.0	86.5
<i>glabrata</i>	20		2384.0	37513.9	1022.9	423.9	9405.0	306.5
	0	7	77.1	1676.1	1434.6	0.0	41.2	51.2
	1		546.0	11219.5	1377.8	9.2	331.7	77.1
	20		6208.9	68495.6	3228.1	139.2	2682.5	217.6

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor 0: none 1: 1 mg/L 20: 20 mg/L

Table 11

Medium composition: YM or KB or KY medium + 1% soybean oil + 6% glucose
+ 4 mg/L ergosterol

Medium	Strain No.	SQAD	NE	FOH	Supernatant fraction (µg/L) GGOH
YM	IFO 0107	0	0.0	10.8	155.2
	<i>Saccharomyopsis fibuligera</i>	20	0.0	9.7	386.5
KB	K 0876	0	0.0	29.0	0.0
	<i>Pseudomonas</i> sp.	20	0.0	7.8	0.0
YM	IFO 1665	0	0.0	4.7	211.5
	<i>Saccharomyopsis fibuligera</i>	20	0.0	94.5	4214.9
YM	IFO 1744	0	0.0	0.0	155.5
	<i>Saccharomyopsis fibuligera</i>	20	0.0	41.1	3870.1
KB	K 2103	0	0.0	10.9	0.0
	<i>Norcardia asteroides</i>	20	0.0	0.0	0.0
KY	IFO 4570	0	0.0	0.0	36.5
	<i>Mucor javanicus</i>	20	0.0	38.8	343.6
KY	K 4003	0	30.1	511.9	694.7
	<i>Saccharomyces</i> Hafe logos	20	4980.0	56541.1	3603.4
	van Laer				
KY	K 4045	0	148.1	870.4	766.8
	<i>Saccharomyces cerevisiae</i>	20	24606.3	37772.7	2590.6
KY	K 4102	0	17.5	541.1	711.3
	<i>Saccharomyces ellipsoideus</i>	20	18160.8	50245.8	3207.1
KY	K 4103	0	56.4	753.1	1072.8
	<i>Saccharomyces cerevisiae</i>	20	20930.8	53814.6	4589.9
KY	K 4104	0	19.5	569.2	546.0
	<i>Saccharomyces cerevisiae</i>	20	23620.7	54713.2	2654.4
KY	IFO 0565	0	0.0	411.7	535.2
	<i>Saccharomyces cerevisiae</i>	20	839.9	45723.6	2216.6
KY	IFO 0210	0	37.5	685.5	362.8
	<i>Saccharomyces cerevisiae</i>	20	25251.0	48795.6	1627.2
KY	IFO 0346	0	0.0	196.2	278.9
	<i>Schizosaccharomyces pombe</i>	20	757.6	45282.1	1153.6
KY	IFO 1475	0	0.0	236.9	462.7
	<i>Ogataea polymorpha</i>	20	0.0	5643.0	1195.1

Table 11 (continued)

(Continuation of Table 11)

KY	JCM 2169	0	0.0	809.8	241.2
	Debaryomyces vanrijiae	20	129.5	20359.5	2236.0
	var vanrijiae				
KY	IFO 0339	0	0.0	164.4	364.3
	Saccharomyces ludwigii	20	131.0	28498.6	1483.8
KY	IFO 0115	0	0.0	254.9	493.6
	Hanseniaspora valbyensis	20	182.6	26807.1	1217.7
	Valbyensis				
KY	IFO 0648	0	0.0	136.4	433.8
	Kluyveromyces lactis	20	348.6	31785.7	3343.8
KY	IFO 0005	0	192.8	861.5	909.0
	Candida glabrata	20	15504.1	44573.8	2237.1
KY	IFO 0762	0	37.0	274.7	384.4
	Candida solani	20	1702.8	6574.7	619.1
KY	IFO 1527	0	0.0	16.6	24.7
	Cryptococcus humicolus	20	0.0	49.6	33.4
KY	IFO 1116	0	0.0	199.3	315.7
	Wickerhamia fluorescens	20	73.2	12200.1	1181.6

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor 0: none 20: 20 mg/L

Treated with phosphatase

Table 12

Medium composition: YM or KB or KY medium + 1% soybean oil + 6% glucose
+ 4 mg/L ergosterol

Medium	Strain No.	Cell fraction (μg/L)			
		SQAD	NE	FOH	GGOH
YM	IFO 0107	0	0.0	8.1	24.6
	<i>Saccharomyopsis fibuligera</i>	20	0.0	4.8	79.9
KB	K 0876	0	0.0	0.0	0.0
	<i>Pseudomonas sp. H21</i>	20	0.0	0.0	0.0
YM	IFO 1665	0	0.0	8.2	21.7
	<i>Saccharomyopsis fibuligera</i>	20	0.0	20.8	228.9
YM	IFO 1744	0	0.0	0.0	42.2
	<i>Saccharomyopsis fibuligera</i>	0	0.0	29.8	819.1
KB	K 2103	0			
	<i>Norcadia asteroides</i>	20			
KY	IFO 4570	0	13.4	22.7	17.5
	<i>Mucor Javanicus</i>	20	0.0	15.6	61.7
KY	K 4003	0	0.0	36.9	52.4
	<i>Saccharomyces Hafe logos</i>	20	291.8	7433.0	710.6
	<i>van Laer</i>				
KY	K 4045	0	0.0	69.3	65.8
	<i>Saccharomyces cerevisiae</i>	20	3022.6	7893.0	534.5
KY	K 4102	0	0.0	36.4	76.3
	<i>Saccharomyces ellipsoideus</i>	20	1350.0	6358.2	396.5
KY	K 4103	0	0.0	591.7	39.4
	<i>Saccharomyces cerevisiae</i>	20	1073.6	5528.9	369.6
KY	K 4104	0	0.0	51.6	79.2
	<i>Saccharomyces cerevisiae</i>	20	2409.9	11464.9	656.2
KY	IFO 0565	0	0.0	40.2	54.7
	<i>Saccharomyces cerevisiae</i>	20	57.3	5071.6	333.5
KY	IFO 0210	0	0.0	119.4	89.6
	<i>Saccharomyces cerevisiae</i>	20	1698.7	4355.2	183.2
KY	IFO 0346	0	0.0	29.7	82.6
	<i>Schizosaccharomyces pombe</i>	20	83.1	4826.5	159.4
KY	IFO 1475	0	0.0	31.4	126.0
	<i>Ogataea polymorpha</i>	20	19.8	1196.1	402.7

(Continuation of Table 12)

KY	JCM 2169	0	0.0	67.2	54.3
	Debaryomyces vanrijiae	20	23.9	2807.0	492.6
	var. vanrijiae				
KY	IFO 0339	0	0.0	41.6	114.7
	Saccharomyces ludwigii	20	0.0	3217.2	199.4
KY	IFO 0115	0	0.0	25.2	76.6
	Hanseniaspora valbyensis	20	15.1	2823.5	185.8
	Valbyensis				
KY	IFO 0648	0	0.0	20.9	84.6
	Kluyveromyces lactis	20	14.5	1128.6	225.8
KY	IFO 0005	0	0.0	34.9	51.7
	Candida glabrata	20	1193.0	4710.9	279.6
KY	IFO 0762	0	16.2	90.5	126.0
	Candida solani	20	231.3	962.5	350.0
KY	IFO 1527	0	7.8	16.0	0.0
	Cryptococcus humicolus	20	21.2	160.9	51.9
KY	IFO 1116	0	0.0	15.0	86.5
	Wickerhamia fluorescens	20	32.6	4262.8	500.7

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor 0: none 20: 20 mg/L

Treated with phosphatase

Table 13

Medium composition: KB medium + 1% soybean oil + ergosterol

Strain No.	SQAD	Supernatant fraction			Cell fraction		
		NE	FOH	GGOH	NE	FOH	GGOH
IFO 3032	0	0.0	11.6	0.0	0.0	0.0	0.0
<i>Bacillus</i>	20	0.0	22.4	0.0	0.0	0.0	0.0
<i>Amyloliquefaciens</i>							
IFO 3030	0	0.0	21.9	0.0	0.0	0.0	0.0
<i>Bacillus pumilus</i>	20	0.0	36.6	0.0	0.0	6.0	0.0
IFO 3762	0	0.0	6.8	0.0	0.0	11.2	0.0
<i>Staphylococcus</i>	20	0.0	121.4	0.0	0.0	292.4	0.0
<i>Epidermidis</i>							
IFO 3067	0	0.0	5.1	0.0	0.0	0.0	0.0
<i>Micrococcus</i>	20	0.0	57.3	0.0	0.0	11.8	0.0
<i>Lutenus</i>							
IFO 12146	0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Exiguobacterium</i>	20	0.0	115.7	0.0	0.0	10.4	0.0
<i>Acetylicum</i>							

NE: nerolidol

FOH: farnesol

GGOH: geranylgeraniol

SQAD: squalene synthesis inhibitor 0: none 20: 20 mg/L

Treated with phosphatase

Table 14

Production of nerolidol (NOH), farnesol (FOH) and geranylgeraniol (GGOH) (mg/L of culture solution)

Strains	No.	Day 3			Day 10			Temp.	Medium
		NOH	FOH	GGOH	NOH	FOH	GGOH		
<i>Alcaligenes faecalis</i>	IFO13111	0.00	0.01	0.11	0.00	0.04	0.09	30	LBO-SSI
<i>Brevibacterium divercatum</i>	NRRL2311	0.00	0.00	0.02	0.00	0.00	0.00	30	LBO-SSI
<i>Brevibacterium fuscum</i>	IFO12127	0.00	0.02	0.00	0.00	0.00	0.00	30	LBO-SSI
<i>Brevibacterium linens</i>	IFO12171	0.00	0.46	0.00	0.00	0.08	0.00	30	LBO-SSI
<i>Candida catenulata</i>	IFO 0720	0.04	8.10	0.34	0.04	8.61	0.47	30	YMO-SSI
<i>Candida fragilis</i>	IFO 1574	0.03	4.91	0.76	0.04	8.95	1.31	30	YMO-SSI
<i>Candida krusei</i>	IFO 0013	0.04	6.99	0.29	0.06	13.65	0.86	30	YMO-SSI
<i>Candida lambica</i>	IFO 1146	0.02	4.53	0.49	0.04	0.59	1.24	30	YMO-SSI
<i>Candida maltosa</i>	IFO 1977	0.00	6.74	0.19	0.08	9.03	0.58	30	YMO-SSI
<i>Candida mycoderma</i>	IFO 0164	0.02	5.45	0.20	0.03	4.69	0.17	30	YMO-SSI
<i>Candida parapsilosis</i>	IFO 0708	0.00	1.76	0.17	0.01	5.13	0.25	30	YMO-SSI
<i>Candida rugosa</i>	IFO 0591	0.00	0.90	0.08	0.00	4.20	0.19	30	YMO-SSI
<i>Candida succiniphila</i>	IFO 1911	0.00	2.44	0.25	0.00	0.00	0.00	30	YMO-SSI
<i>Candida tropicalis</i>	IFO 0006	△△△			0.17	9.04	0.00	30	YMO-SSI
<i>Candida zeylanoides</i>	IFO 0719	0.00	1.43	0.29	0.00	7.38	1.24	30	YMO-SSI
<i>Cryptococcus albidus</i>	IFO 0881	0.00	0.15	0.03	0.02	2.41	0.45	30	YMO-SSI
<i>Cryptococcus glutinis</i>	IFO 1125	0.04	6.64	1.48	0.35	3.70	3.29	24	YMO-SSI
<i>Dipodascus ovotensis</i>	IFO 1201	0.00	4.23	0.14	0.04	8.68	0.95	30	YMO-SSI
<i>Haloperax volcanii</i>	IFO 14742	2.12	39.11	1.04	4.14	57.73	2.49	30	HVO-SSI
<i>Hanseniaspora valbyensis</i>	IFO 1758	0.00	0.33	0.04	0.04	2.40	0.12	30	YMO-SSI
<i>Issatchenkia orientalis</i>	IFO 1279	0.00	2.22	0.15	0.03	7.68	0.52	30	YMO-SSI
<i>Kloeckera africana</i>	IFO 0868	1.09	10.90	0.81	1.10	6.29	0.17	30	YMO-SSI
<i>Kloeckera apiculata</i>	IFO 0151	0.00	0.05	0.02	0.04	10.73	0.86	30	YMO-SSI
<i>Kluveromyces marxianus</i>	IFO 0617	0.09	14.48	0.87	0.13	16.29	1.71	30	YMO-SSI
<i>Kuraishia capsulata</i>	IFO 0974	0.00	0.91	0.17	0.00	3.25	0.42	30	YMO-SSI
<i>Mortierella ramenniana</i>	ATCC 24786	△△△			0.00	0.76	0.13	24	YMO-SSI
<i>Nakazawaella holstii</i>	IFO 0980	0.01	1.06	0.18	0.02	5.85	0.38	30	YMO-SSI
<i>Pichia capsulata</i>	IFO 0984	0.00	0.63	0.04	0.04	4.17	0.11	30	YMO-SSI
<i>Pichia henricii</i>	IFO 1477	0.00	3.20	0.12	0.00	3.24	0.00	30	YMO-SSI
<i>Pichia holstii</i>	IFO 0980	0.04	6.22	0.22	0.04	2.79	0.65	30	YMO-SSI
<i>Pichia naganishii</i>	IFO 1670	0.00	2.14	0.22	0.02	9.28	0.96	30	YMO-SSI
<i>Pichia rhodanensis</i>	IFO 1272	0.03	3.34	0.91	0.46	26.57	10.29	30	YMO-SSI
<i>Pichia saitoi</i>	JAM 4945	0.34	10.78	0.51	0.28	24.31	1.38	30	YMO-SSI
<i>Rhodosporidium toruloides</i>	IFO 8766	0.88	6.59	2.47	0.72	2.47	2.52	24	YMO-SSI
<i>Rhodotorula aurantinaca</i>	IFO 0951	0.01	3.14	0.18	0.03	6.11	0.50	30	YMO-SSI
<i>Rhodotorula rubra</i>	IFO 0870	0.03	1.62	1.02	0.16	2.32	1.61	30	YMO-SSI
<i>Saccharomyces fibuligera</i>	IFO 0105	0.00	0.06	1.68	0.00	5.71	4.79	30	YMO-SSI
<i>Saccharomyces octosporus</i>	IFO 1209	0.05	9.48	0.16	0.21	16.46	0.83	30	YMO-SSI
<i>Schizosaccharomyces octosporus</i>	1AM4842	0.00	1.24	0.03	0.00	1.79	0.08	30	YMO-SSI
<i>Staphylococcus aureus</i>	IFO3060	0.00	0.06	0.00	0.00	0.05	0.00	30	YMO-SSI
<i>Torulospore delbrueckii</i>	IFO 1626	0.04	2.33	0.15	0.06	5.50	0.36	30	YMO-SSI
<i>Trichosporon cutaneum</i>	IFO 1198	0.00	10.23	0.69	0.00	0.14	0.09	30	YMO-SSI
<i>Tsukumurella paurometabolum</i>	IFO12160	0.00	0.07	0.00	0.00	0.06	0.00	30	YMO-SSI
<i>Yamadazyma farinosa</i>	IFO 0193	0.00	1.27	0.18	0.00	2.36	0.82	30	YMO-SSI
<i>Yarrowia lipolytica</i>	IFO 0746	0.06	9.66	0.15	0.16	13.41	0.36	24	YMO-SSI
<i>Zygosaccharomyces japonicus</i>	IFO 0595	0.05	0.77	0.05	0.10	2.17	0.15	30	YMO-SSI

Table 14 (continued)

Production of nerolidol (NOH), farnesol (FOH) and geranylgeraniol (GGOH) (mg/L of culture solution)

Strains	IFO No.	Day 3			Day 10			Temp. (°C)	Medium
		NOH	FOH	GGOH	NOH	FOH	GGOH		
<i>Ambrosiozyma ambrosiae</i>	10835	0.0	0.1	1.5	0.0	0.0	0.7	24	YPD0-SSI
<i>Ambrosiozyma monospora</i>	10751	0.0	1.0	0.3	0.0	4.8	1.4	24	YMO-SSI
<i>Ambrosiozyma philentoma</i>	1847	0.0	0.9	0.2	0.0	16.8	0.8	24	YMO-SSI
<i>Ambrosiozyma platypodis</i>	10752	0.0	1.7	0.1	0.0	48.6	1.4	24	YMO-SSI
<i>Bensingtonia intermedia</i>	10178	0.0	1.5	0.7	0.0	2.9	5.2	24	YMO-SSI
<i>Botryozyma nematodophila</i>	10830	0.0	2.5	0.3	0.0	5.6	2.8	24	YPD0-SSI
<i>Brettanomyces anomalus</i>	0627	0.0	18.0	0.4	0.6	16.7	0.0	24	YMO-SSI
<i>Brettanomyces bruxellensis</i>	0797	0.0	4.7	0.5	0.0	8.2	0.0	24	YMO-SSI
<i>Brettanomyces custersianus</i>	10735	0.0	0.1	1.4	0.0	20.0	0.6	24	YMO-SSI
<i>Bullera crocea</i>	10113	0.0	7.4	0.5	0.0	16.1	0.5	17	YMO-SSI
<i>Bullera sinensis</i>	10756	0.1	0.3	1.0	0.1	1.7	2.3	24	YMO-SSI
<i>Citeromyces matritensis</i>	0651	0.1	2.0	0.4	0.0	0.7	0.0	24	YMO-SSI
<i>Clavispora lusitaniae</i>	10059	0.0	1.0	0.3	0.1	9.2	9.1	24	YMO-SSI
<i>Cystofilobasidium infirmominutum</i>	1057	5.7	14.9	2.6	10.8	48.4	3.6	24	YMO-SSI
<i>Debaryomyces occidentalis</i>	1842	0.0	0.7	0.2	0.0	0.4	4.1	24	YMO-SSI
<i>Dekkera bruxellensis</i>	1590	0.0	3.7	0.2	0.0	15.7	0.0	24	YMO-SSI
<i>Dipodascus armillariae</i>	10804	0.0	4.2	0.1	0.0	3.3	0.2	24	YMO-SSI
<i>Dipodascus tetrasperma</i>	10810	0.0	1.7	0.8	0.0	9.8	2.5	24	YMO-SSI
<i>Eremascus albus</i>	10811	0.0	0.0	4.8	0.0	0.0	3.6	24	YMO-SSI
<i>Eremascus fertilis</i>	0891	0.0	0.0	0.0	0.0	0.4	0.0	24	YMO-SSI
<i>Eremothecium gossypii</i>	1355	0.0	0.8	0.0	0.0	4.4	0.9	24	YMO-SSI
<i>Erythrobasidium hasegawaium</i>	1058	0.0	0.5	1.0	0.0	0.0	6.8	24	YMO-SSI
<i>Hanseniaspora guilliermondii</i>	1411	0.0	1.4	0.1	0.0	1.3	0.0	24	YMO-SSI
<i>Hanseniaspora uvarum</i>	10833	0.1	15.3	2.9	0.4	11.1	0.8	24	YPD0-SSI
<i>Kloeckeraspora vineae</i>	1415	0.4	3.4	0.3	0.7	1.2	0.0	24	YMO-SSI
<i>Kockvallia imperatae</i>	10522	0.0	3.2	3.5	0.0	19.5	6.2	24	YMO-SSI
<i>Kodamaea ohmeri</i>	0202	0.0	7.7	1.6	0.1	13.7	4.7	24	YMO-SSI
<i>Kurtzmanomyces necatoriae</i>	10118	0.0	0.1	0.1	0.0	0.0	0.0	24	YMO-SSI
<i>Leucosporidium scottii</i>	1924	0.2	32.8	1.3	0.7	5.2	0.0	24	YMO-SSI
<i>Lodderomyces elongisporus</i>	1676	0.1	14.8	2.0	0.1	15.7	0.0	24	YMO-SSI
<i>Malessezia furfur</i>	0656	0.0	4.3	0.1	0.0	6.9	0.1	30	YMOO-SSI
<i>Metschnikowia hawaiiensis</i>	10791	0.0	0.0	0.3	0.0	0.0	0.2	24	YPD0-SSI
<i>Metschnikowia krisii</i>	1677	0.0	1.3	0.1	0.0	21.0	0.0	24	YMO-SSI
<i>Metschnikowia lunata</i>	1605	0.0	5.1	1.0	0.3	31.9	5.9	24	YMO-SSI
<i>Metschnikowia pulcherrima</i>	0863	0.0	10.5	0.2	0.1	15.4	0.3	24	YMO-SSI
<i>Mrekia frigida</i>	1926	0.5	25.3	0.3	0.3	11.3	0.1	12	YMO-SSI

Table 14 (continued)

Production of nerolidol (NOH), farnesol (FOH) and geranylgeraniol (GGOH) (mg/L of culture solution)

Strains	IFO No.	Day 3			Day 10			Temp. (°C)	Medium
		NOH	FOH	GGOH	NOH	FOH	GGOH		
<i>Myxozyma lipomycooides</i>	10351	0.7	23.3	5.4	1.3	35	1.1	24	YMO-SSI
<i>Nadsonia commutata</i>	10029	0.0	0.1	0.0	0.0	0.3	0.0	17	YMO-SSI
<i>Pachyveolen tannophilus</i>	1007	0.0	0.1	0.1	0.0	1.9	1.4	24	YMO-SSI
<i>Pichia burtonii</i>	10837	0.0	3.0	1.1	0.0	7.5	1.7	24	YMO-SSI
<i>Pichia misumalensis</i>	10221	0.3	20.8	1.8	1.0	14.5	2.0	24	YMO-SSI
<i>Pichia ofunaensis</i>	10709	0.0	0.1	0.1	0.0	0.0	0.0	24	YMO-SSI
<i>Pichia piperi</i>	1290	0.5	5.1	0.6	0.5	6.4	0.5	24	YMO-SSI
<i>Saccharomyces transvaalensis</i>	1625	0.1	0.0	0.0	0.0	0.0	0.0	30	YMO-SSI
<i>Saccharomyces sinensis</i>	10111	0.1	0.4	0.0	0.6	0.8	0.1	30	YMO-SSI
<i>Saccharomyces fibuligera</i>	10829	0.0	0.0	4.1	0.0	0.0	2.8	24	YPDO-SSI
<i>Saccharomyces javaeensis</i>	1848	0.0	0.0	0.0	0.0	0.0	0.6	24	YMO-SSI
<i>Saccharomyces schoenii</i>	10683	0.1	5.3	0.4	0.5	28.3	2.3	24	YMO-SSI
<i>Saccharomyces synnaeidendra</i>	1604	0.0	2.8	1.3	0.0	1.2	0.0	24	YMO-SSI
<i>Saccharomyces vini</i>	1748	0.0	3.9	0.4	0.0	23.2	6.4	24	YMO-SSI
<i>Saturnispora zarzensis</i>	1384	0.0	0.2	0.1	0.0	3.0	1.3	24	YMO-SSI
<i>Schizoblastosporion kobayasi</i>	1644	0.0	4.0	0.9	0.0	2.8	4.7	24	YMO-SSI
<i>Schizoblastosporion starkeyi-herricki</i>	10842	0.0	0.9	0.2	0.0	1.1	0.8	24	YPDO-SSI
<i>Sporopachydermia cereana</i>	10013	0.0	0.6	0.2	0.2	0.1	1.2	24	YMO-SSI
<i>Stephanosascus ciferrii</i>	1854	0.0	0.9	0.1	0.0	3.3	0.0	24	YMO-SSI
<i>Sterigmatomyces elviae</i>	1843	0.0	4.5	0.5	0.1	10.5	1.8	24	YMO-SSI
<i>Sterigmatomyces halophilus</i>	1488	0.0	0.0	0.0	0.8	0.3	0.0	24	YMO-SSI
<i>Sterigmatosporidium polymorphum</i>	10121	0.0	2.4	0.1	0.0	15.7	1.3	24	YMO-SSI
<i>Sympodiomyces parvus</i>	10132	0.0	3.7	0.1	0.0	3.0	0.0	17	YMO-SSI
<i>Sympodiomyces paphiopedilii</i>	10750	0.0	1.3	1.0	0.0	0.8	1.0	24	YMO-SSI
<i>Trichosporon brassicae</i>	1584	0.0	13.0	0.7	0.0	13.2	0.0	24	YMO-SSI
<i>Trichosporon pullulans</i>	1232	0.2	10.9	0.2	0.3	30.5	1.1	17	YMO-SSI
<i>Trigonopsis variabilis</i>	0755	0.0	0.0	0.0	0.0	0.1	0.2	24	YMO-SSI
<i>Tsuchiyaea wingfieldii</i>	10204	0.0	15.3	0.7	0.0	17.5	1.4	24	YMO-SSI
<i>Wickerhamella domercqiae</i>	1857	0.0	1.7	0.0	0.0	5.2	0.0	24	YMO-SSI
<i>Xanthophyllomyces dendrophous</i>	10130	0.1	30.0	0.8	0.5	33.8	2.8	24	YMO-SSI
<i>Zygozyma oligophaga</i>	10360	0.1	6.4	5.3	0.8	24.3	5.6	24	YMO-SSI

Table 14 (continued)

Production of nerolidol (NOH), farnesol (FOH) and geranylgeraniol (GGOH) (mg/L of culture solution)

Strains	No.	Day 3			Day 9			Temp. (°C)	Medium
		NOH	FOH	GGOH	NOH	FOH	GGOH		
<i>Aciculocoridium aculeatum</i>	IFO 10124	0.0	21.3	1.4	0.0	26.4	2.3	24	YMO-SSI
<i>Bullera pseudoloba</i>	IFO 10179	0.0	11.0	2.0	0.0	40.7	15.0	24	YMO-SSI
<i>Candida albicans</i>	IFO 1060	0.2	108.8	3.5	0.8	32.9	4.7	30	YMO-SSI
<i>Candida glabrata</i>	IFO 0741	0.3	19.6	0.6	3.2	70.1	4.2	30	YMO-SSI
<i>Candida guilliermondii</i>	IFO 0566	0.0	3.9	0.8	0.0	4.2	1.1	30	YMO-SSI
<i>Candida intermedia</i>	IFO 0761	0.0	56.2	2.5	0.1	87.0	6.2	30	YMO-SSI
<i>Candida kefyr</i>	IFO 0706	0.3	28.2	2.0	0.7	15.8	2.9	30	YMO-SSI
<i>Candida krusei</i>	IFO 0941	0.5	37.9	4.0	3.7	7.8	8.0	30	YMO-SSI
<i>Candida tenuis</i>	IFO 0716	0.0	2.2	0.2	0.0	31.2	2.2	30	YMO-SSI
<i>Candida utilis</i>	IFO 0619	0.2	42.2	5.5	0.8	52.5	11.1	30	YMO-SSI
<i>Cryptococcus humicola</i>	IFO 0753	0.2	6.3	2.0	0.0	0.3	3.3	30	YMO-SSI
<i>Cryptococcus terreus</i>	IFO 0727	0.0	1.2	0.1	0.2	1.9	0.3	30	YMO-SSI
<i>Debaryomyces castellii</i>	IFO 1359	0.0	11.4	1.1	0.0	26.8	4.6	30	YMO-SSI
<i>Fellomyces pericillatus</i>	IFO 10119	0.0	2.9	0.3	0.1	45.7	4.4	24	YMO-SSI
<i>Filobasidium capsuligenum</i>	IFO 1185	0.0	51.0	1.1	0.2	106.6	3.6	24	YMO-SSI
<i>Filobasidium uniguttatum</i>	IFO 0699	0.0	28.7	1.3	0.4	85.4	8.9	24	YMO-SSI
<i>Kloeckera corticis</i>	IFO 0633	0.4	42.8	2.3	1.2	62.1	8.2	30	YMO-SSI
<i>Holtermannia corniformis</i>	IFO 10742	0.0	25.4	2.8	1.1	50.7	8.4	24	YMO-SSI
<i>Kluyveromyces marxianus</i>	IFO 0617	0.0	16.6	0.8	0.4	35.1	5.0	30	YMO-SSI
<i>Phaffia rhodozyma</i>	ATCC 66270	0.0	2.2	0.1	0.5	108.7	5.8	24	YMO-SSI
<i>Pichia anomala</i>	IFO 0146	0.2	34.8	2.6	0.2	7.4	4.3	30	YMO-SSI
<i>Pichia fabianii</i>	IFO 1254	0.0	14.3	1.5	0.2	0.1	4.2	30	YMO-SSI
<i>Pichia farinosa</i>	IFO 1003	0.0	3.2	0.6	0.0	11.1	1.8	30	YMO-SSI
<i>Pichia jadinii</i>	IFO 0987	0.0	23.1	2.0	0.1	24.6	8.3	30	YMO-SSI
<i>Pichia polymorpha</i>	IFO 0195	0.3	21.8	3.2	0.4	0.6	5.2	30	YMO-SSI
<i>Pichia silvicola</i>	IFO 0807	0.0	10.6	1.6	0.8	29.0	4.2	30	YMO-SSI
<i>Rhodotorula glutinis</i>	IFO 0695	0.0	3.8	0.2	0.0	3.4	0.3	30	YMO-SSI
<i>Rhodotorula minuta</i>	IFO 0715	0.3	6.6	12.0	3.4	5.0	0.7	30	YMO-SSI
<i>Rhodotorula rubra</i>	IFO 0870	0.3	5.5	10.8	3.5	4.4	25.4	30	YMO-SSI
<i>Saccharomyces cerevisiae</i>	IFO 0258	0.0	22.3	0.6	0.4	77.5	1.9	30	YMO-SSI
<i>Saccharomyces cerevisiae</i>	IFO 2347	0.0	18.8	0.7	0.1	36.5	1.4	30	YMO-SSI
<i>Saccharomyces ludwigii</i>	IFO 10036	0.0	3.3	0.2	0.1	15.5	0.4	24	YMO-SSI
<i>Saccharomyces fermentans</i>	IFO 10772	0.1	41.4	1.9	0.3	37.9	3.1	24	YMO-SSI
<i>Sporidiobolus samanicola</i>	IFO 1035	0.1	7.9	1.1	0.1	42.3	6.4	30	YMO-SSI
<i>Sporobolomyces salmonicolor</i>	IFO 0374	0.1	28.8	3.4	0.5	35.7	14.4	30	YMO-SSI
<i>Trichosporiella flavificans</i>	IFO 1573	0.0	0.0	0.0	0.2	31.5	3.0	24	YMO-SSI
<i>Trichosporon penicillatum</i>	JCM 2171	0.0	1.7	0.6	0.1	1.7	0.0	30	YMO-SSI
<i>Williopsis californica</i>	IFO 0800	10.1	95.7	4.7	10.5	90.1	5.2	24	YMO-SSI
<i>Williopsis saturnus</i>	IFO 0895	0.5	59.1	9.0	1.6	69.2	13.1	30	YMO-SSI
<i>Yamadazyma farinosa</i>	IFO 0459	0.0	6.2	0.8	0.0	20.8	2.2	30	YMO-SSI
<i>Zygoascus hellenicus</i>	IFO 10184	0.0	3.9	0.1	0.0	32.4	2.7	24	YMO-SSI